

CLAIMS

1. A process for producing a contour of a planiform piece for an internal trim of a motor vehicle, the process comprising:

5 cutting said piece (1) to define at least an apex (2) of said contour (3),
having a given profile P, and a side (4);

10 forming from said piece, to produce simultaneously, at least said apex (2), according to said profile P, and to cut said first side (4) over a fraction F of a length said first side extending from said apex (2); and

15 cutting said piece (1) further to produce said first side (4), including at least a portion at least of said fraction F.

2. The process according to claim 1, wherein at the time of the extended cut, there is simultaneously produced, another side (7) of the contour (3), extending from said apex (2), over a fraction F', of its length, extending from said apex (2), and wherein, at another moment, an additional cutting of said 15 piece to produce said second side (7) at least in the area of a part at least of said fraction F', to create a second lateral cut.

3. The process according to claim 1, wherein said first and second lateral cutting operations are performed simultaneously.

4. The process according to claim 3, wherein said first and second 20 lateral cutting operations are performed before said extended cutting of the apex (2).

5. The process according to claim 2, wherein said profile of the apex (2) is rounded and/or said first and/or second sides (5, 7) are rectilinear, at least over a fraction of their length extending from said apex (2).

25 6. The process according to claim 2, wherein said contour (3) is produced on one part only of a thickness of said piece (1).

Sub A1 7. A device for producing a contour of a planiform piece for an interior trim of a motor vehicle, the device comprising

a cutting means for cutting said piece for defining at least an apex (2) of said contour (3), having a given profile P, and a side (4), of said contour (3) extending from said apex (2), wherein said cutting means includes at least:

5 a first means (9) for cutting said piece (1), for a simultaneous production of at least said apex (2), according to said profile P, and of said first side (4) on a fraction F, of its length, extending from said apex (2);

10 a second means (10) for cutting said piece (1), capable of permitting the production of said first side (4) including at least one part at least of fraction F, and wherein said first (9) and second (10) cutting means functioning sequentially.

8. The device according to claim 7, wherein:

15 said first cutting means (9) are capable of permitting the simultaneous production, of a second side (7) of the contour (3), extending from said apex (2), over a fraction F', of its length, extending from said apex (2), and wherein said cutting means includes a third means (11) for cutting the piece (1), to produce said second side (7), at least in the area of a part at least of said fraction F', said first and third cutting means (9, 11) functioning sequentially.

20 9. The device according to claim 8, wherein said first cutting means (9) is a first knife (12) having a continuous cutting edge (13) formed of three parts, a first central part (13a) for forming the apex (2) according to said profile P, a second and a third part (13b, 13c) extending on each side said central part (13a), for forming fractions F and F'.

25 said second and third cutting means (10, 11) are second and third knives (14, 15), having a cutting edge (16, 17) for forming said first and second sides (4, 7), at least in the area of a part at least of said fractions F and F'.

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10. The device according to claim 9, wherein said cutting means further includes a support (18), for receiving said piece (1), such that the latter can be sandwiched, at least over a part of its thickness, between said support (18) and said first, second and third cutting means (9, 10, 11).

5 11. The device according to claim 10, wherein:

said support has a contour (19) including at least a first part (19a), having a profile substantially identical with that of the cutting edge of the first knife (12), and a second and a third part (19b, 19c) located on either side of said first part (19a) of the contour of the support in the prolongation of the latter 10 and having a profile substantially identical, with that of the cutting edges (16, 17) of the second and third knives (14, 15), and

wherein said first and second parts (19a, 19b) of the contour of the support overlap in the area of a first zone A, for forming a fraction F, and

wherein said first and third parts (19a, 19c) of the contour of the support 15 overlap in the area of a first zone A', for forming fraction F'.

12. The device according to claim 11, wherein said first, second and third knives (12, 14, 15) are mobile between two positions in relation to said supports (18), such that a first retracted position in which the cutting edges (13, 16, 17) of said first, second and third knives (12, 14, 15) are contiguous and in 20 the prolongation of one another, and facing said first, second and third parts (19a, 19b, 19c) of the contour of the support, and wherein a second position in which the cutting edges (13, 16, 17) are in contact with said support (18), said first knife (12) coming to bear, in a first configuration, against said first part (19a) of the contour of the support, and said second and third knives (10, 11) 25 coming to bear, in a second configuration, against said second and third parts (19b, 19c) of the contour of the support.